

DERWENT-ACC-NO: 1998-205230

DERWENT-WEEK: 199818

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TITLE: Automotive air-conditioning  
flammable refrigerant safety  
system - has refrigerant and airflow  
valves shut off in the event of refrigerant leakage or  
vehicle collision with airflow shut-off/exhaust valve  
set to pass contaminated flow to outside the  
vehicle

PATENT-ASSIGNEE: ANONYMOUS [ANON]

PRIORITY-DATA: 1998RD-0407040 (February 20, 1998)

PATENT-FAMILY:

PUB-NO	PAGES	PUB-DATE	MAIN-IPC
RD 407040 A		March 10, 1998	
002	B60H 000/00		N/A

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-DESCRIPTOR	APPL-NO
RD 407040A		N/A	
1998RD-0407040		February 20, 1998	

INT-CL (IPC): B60H000/00

ABSTRACTED-PUB-NO: RD 407040A

BASIC-ABSTRACT:

A safety system for flammable refrigerants in vehicle  
air-conditioning system  
includes a refrigerant detector, collision sensor,  
refrigerant shut-off valve,  
airflow shut-off/exhaust valve and ducting equipment.

In the event of a refrigerant leakage or collision being detected, the refrigerant and air-flow valves are actuated, resulting in both valves being shut off, with the airflow redirected to the exhaust opening of the valve, thus allowing the contaminated flow to escape to the outside of the vehicle. With the vehicle inoperative, the airflow shut-off/exhaust is placed in the exhaust position.

USE - Automobile air-conditioning systems.

ADVANTAGE - Capable of preventing flammable refrigerants reaching the vehicle passenger compartment in the event of leakage resulting from accident, vehicle collision etc.

CHOSEN-DRAWING: Dwg.1/2

TITLE-TERMS: AUTOMOTIVE AIR CONDITION FLAMMABLE REFRIGERATE SAFETY SYSTEM

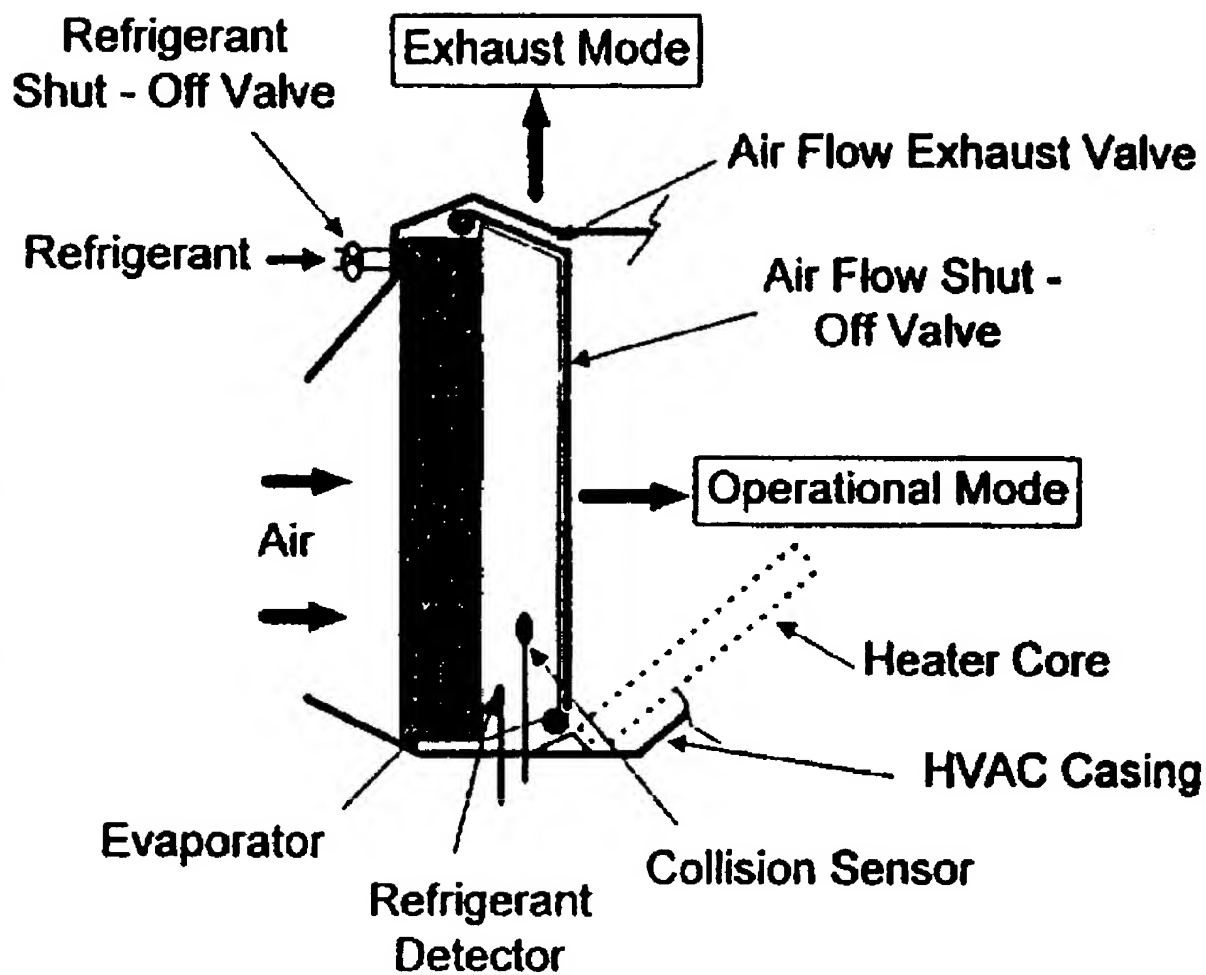
REFRIGERATE AIRFLOW VALVE SHUT EVENT  
REFRIGERATE LEAK VEHICLE  
COLLIDE AIRFLOW SHUT EXHAUST VALVE SET PASS  
CONTAMINATE FLOW  
VEHICLE

DERWENT-CLASS: Q12 X22

EPI-CODES: X22-J02E; X22-X;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N1998-163010



**Figure 1 Air Flow Shut Off Valve, Sensor & Detector Assembly**